

West Virginia Department of Environmental Protection  
Division of Air Quality

Joe Manchin, III  
Governor

Stephanie R. Timmermeyer  
Cabinet Secretary

# Permit to Operate



Pursuant to  
Title V  
of the Clean Air Act

Issued to:  
**Dominion Transmission, Incorporated**  
Hastings Extraction Plant  
R30-10300009-2008

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*John A. Benedict*  
*Director*

Issued: October 4, 2006 • Effective: October 18, 2006  
Expiration: October 4, 2011 • Renewal Application Due: April 4, 2011

Permit Number: **R30-10300009-2008**  
Permittee: **Dominion Transmission, Incorporated**  
Facility Name: **Hastings Extraction Plant**  
Mailing Address: **445 West Main Street, Clarksburg, WV 26301**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location: Pine Grove, Wetzel County, West Virginia  
Mailing Address: PO Box 370, Pine Grove, WV 26149  
Telephone Number: (304) 889-3145  
Type of Business Entity: Corporation  
Facility Description: Natural Gas Extraction  
SIC Codes: 1321  
UTM Coordinates: 528.64 km Easting • 4377.66 km Northing • Zone 17

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

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<sup>1</sup>Requirements incorporated by reference in 40 CFR 60, Subpart KKK.

## 1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
001-01	EN01	Diesel Fired Fire Pump, John Deere Model 6801HF001	2008	300 HP	NA
001-02	EN02	Diesel Fired Fire Pump, John Deere Model 6801HF001	2008	300 HP	NA
<u>001- 03</u>	<u>EN03</u>	<u>Diesel Fired Fire Pump, John Deere Model 6668HFC48B</u>	<u>2010</u>	<u>211 HP</u>	<u>NA</u>
001- <del>043</del>	EN <del>043</del>	Reciprocating Engine/Fire Pump; Waukesha	1971	150 HP	NA
004-01	BL01	Boiler; Cleaver Brooks 101-CB	1971	25.1 MMBtu/hr	NA
004-02	BL02	Boiler; Cleaver Brooks 101-CA	2000	16.75 MMBtu/hr	NA
004-05	HTR3	Pipeline Heater; Callidus Tech. OPF	2003	70 MMBtu/hr	NA
002-02	AUX02	Backup Generator; Kohler Auxiliary Generator	2002	50KW (67 HP)	NA
002-03	AUX03	Emergency Generator; Dayton	2004	40KW	NA
002-04	AUX04	Emergency Generator, Cummins, Onan	2005	85K	NA
005-01	TK03	Vertical Floating Roof Natural Gas Storage Tank	1988	1,000,000 gallons	NA

## 2.0. General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source
<b>CBI</b>	Confidential Business Information		Performance Standards
<b>CEM</b>	Continuous Emission Monitor	<b>PM</b>	Particulate Matter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations		
<b>CO</b>	Carbon Monoxide	<b>pph</b>	Pounds per Hour
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>ppm</b>	Parts per Million
<b>DAQ</b>	Division of Air Quality	<b>PSD</b>	Prevention of Significant Deterioration
<b>DEP</b>	Department of Environmental Protection		
<b>FOIA</b>	Freedom of Information Act	<b>psi</b>	Pounds per Square Inch
<b>HAP</b>	Hazardous Air Pollutant	<b>SIC</b>	Standard Industrial Classification
<b>HON</b>	Hazardous Organic NESHAP		
<b>HP</b>	Horsepower	<b>SIP</b>	State Implementation Plan
<b>lbs/hr</b>	Pounds per Hour		
<b>LDAR</b>	Leak Detection and Repair	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>M</b>	Thousand	<b>TAP</b>	Toxic Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology	<b>TPY</b>	Tons per Year
		<b>TRS</b>	Total Reduced Sulfur
<b>MM</b>	Million	<b>TSP</b>	Total Suspended Particulate
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>USEPA</b>	United States Environmental Protection Agency
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour		
<b>NA</b>	Not Applicable	<b>UTM</b>	Universal Transverse Mercator
<b>NAAQS</b>	National Ambient Air Quality Standards	<b>VEE</b>	Visual Emissions Evaluation
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants	<b>VOC</b>	Volatile Organic Compounds
<b>NO<sub>x</sub></b>	Nitrogen Oxides		

### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
  - a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

- d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.

[45CSR§30-6.4.]

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.

[45CSR§30-6.5.a.]

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.

[45CSR§30-6.5.b.]

## **2.9. Emissions Trading**

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.

[45CSR§30-5.1.h.]

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:

- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
- b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield.



- d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.
- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9]**

## **2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:
  - a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or

- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[45CSR§30-2.39]

## **2.12. Reasonably Anticipated Operating Scenarios**

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
  - a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
  - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
  - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

## **2.13. Duty to Comply**

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

## **2.14. Inspection and Entry**

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
  - a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution Control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

## **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
  - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
  - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

## **2.17. Emergency**

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

[45CSR§30-5.7.b.]

- 2.17.3. The affirmative defense of an emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

**[45CSR§30-5.7.c.]**

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

**[45CSR§30-5.7.d.]**

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**[45CSR§30-5.7.e.]**

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only," are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

**[45CSR§30-5.2.a.]**

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

**[45CSR§30-5.1.f.5.]**

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

**[45CSR§30-4.2.]**

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

**[45CSR§30-5.6.a.]**

- 2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

**[45CSR§30-5.6.c.]**

## **2.22. Credible Evidence**

- 2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

**[45CSR§30-5.3.e.3.B. and 45CSR38]**

## **2.23. Severability**

- 2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

**[45CSR§30-5.1.e.]**

## **2.24. Property Rights**

- 2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.  
[45CSR§30-5.1.f.4]

## **2.25. Acid Deposition Control**

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
  - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
  - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]

### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(I). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.  
[40 C.F.R. 61 and 45CSR15]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.] (*EN01, EN02, and AUX02 are exempt; see Fact sheet.*)
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.  
[45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.  
[W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

**[40 C.F.R. 82, Subpart F]**

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

**[40 C.F.R. 68]**

- 3.1.9. Except as provided in 40 C.F.R. §§ 60.632(b) and (c), the permittee is responsible for thoroughly inspecting the facility, or part of the facility, for the presence of equipment leaks of volatile organic compounds and for complying with 40 C.F.R. §§ 60.632, 60.635 and 60.636. The pertinent sections of 40 CFR 60 **Subpart KKK** applicable to this facility include the following:

- a. Each owner or operator subject to the provisions of this subpart shall comply with the requirements of §§60.482-1 (a), (b), and (d) and 60.482-2 through 60.482-10, except as provided in §60.633, as soon as practicable, but no later than 180 days after initial startup.

**[45CSR16, 40 C.F.R. § 60.632(a), Subpart KKK; and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**

- b. An owner or operator may elect to comply with the requirements of §§60.483-1 and 60.483-2.

**[45CSR16, 40 C.F.R. § 60.632(b), Subpart KKK; and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**

- c. Each owner or operator subject to the provisions of this subpart KKK may comply with the exceptions in this subpart instead of the provisions of subpart VV.

(b)(1)

Each pressure relief device in gas/vapor service may be monitored quarterly and within 5 days after each pressure release to detect leaks by the methods specified in §60.485(b) except as provided in §60.632(c), paragraph(b)(4) of §60.633, and §60.482-4 (a) through (c) of subpart VV.

(b)(2)

If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

**[45CSR16, 40 C.F.R. § 60.633(a), (b)(1) and (b)(2) Subpart KKK; and 45CSR13, R13-2468CB (Condition 4.1.14.12)]**

- d. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in §60.482-9.

**[45CSR16, 40 C.F.R. § 60.633(b)(3)(i), Subpart KKK; and 45CSR13, R13-2468B (Condition 4.1.14 12)]**

- 3.1.10. Each owner or operator subject to the provisions of this subpart shall comply with the requirements of paragraphs (b) and (c) of 40 C.F.R. § 60.635 in addition to the requirements of §60.486.

**[45CSR16, 40 C.F.R. § 60.635(a), Subpart KKK; and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**



### 3.2 Monitoring Requirements

- 3.2.1. The facility shall monitor the hours of operation and the fuel usage on a monthly basis. Hours of operation are to be tracked via a non-resettable hour meter.  
[45CSR13, R13-2468CB (Condition 4.2.1.)]

### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
  - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
  - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.  
[WV Code § 22-5-4(a)(15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this permit and time of sampling or measurements;

- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of the analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

**[45CSR§30-5.1.c.2.A. and 45CSR13, R13-2468CB (Condition 4.4.1.)]**

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.  
**[45CSR§30-5.1.c.2.B.]**
- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
**[45CSR§30-5.1.c. State-Enforceable only.]**

### **3.5. Reporting Requirements**

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
**[45CSR§§30-4.4. and 5.1.c.3.D.]**
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
**[45CSR§30-5.1.c.3.E.]**
- 3.5.3. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class, or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

**If to the US EPA:**

Director  
WVDEP  
Division of Air Quality  
601 57th Street SE  
Charleston, WV 25304  
  
Phone: 304/926-0475  
FAX: 304/926-0478

Associate Director  
Office of Enforcement and Permits Review  
(3AP12)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. **[45CSR§30-8.]**
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[45CSR§30-5.3.e.]**
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
  2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

### 3.6. Compliance Plan

None

### 3.7. Permit Shield

3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

45CSR15 - *National Emission Standards for Hazardous Pollutants (NESHAPs)* - The facility does not exceed the thresholds for hazardous air pollutants (HAPs) of 25 tons per year or 10 tons per year of a single HAP.

45CSR19 - *Nonattainment New Source Review (NSR)* - The facility is located within an area classified as in attainment with respect to the National Air Quality Standards (NAAQS) for all criteria pollutants.

#### **4.0. Source-Specific Requirements • Boilers: (BL01, BL02)<sup>2</sup> (004-01, 004-02)<sup>3</sup>**

##### **4.1. Limitations and Standards**

- 4.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.  
[45CSR§2-3.1.]
- 4.1.2. No person shall cause, suffer, allow or permit the discharge of particulate matter into the open air in excess of the following: 2.259 pounds per hour for BL01 and 1.508 pounds per hour for BL02.  
[45CSR§2-4.1.b.]
- 4.1.3. No person shall cause, suffer, allow or permit the discharge of sulfur dioxide into the open air in excess of the following: 77.81 pounds per hour for BL01 and 51.93 pounds per hour for BL02.  
[45CSR§10-3.1.e.]

##### **4.2. Monitoring Requirements**

None

##### **4.3. Testing Requirements.**

None

##### **4.4. Recordkeeping Requirements**

- 4.4.1. For fuel burning unit(s) which burn only pipeline quality natural gas, such records shall include, but not be limited to, the date and time of start-up and shutdown, and the quantity of fuel consumed on a monthly basis.  
[45CSR§2A-7.1.a.1.]
- 4.4.2. The owner or operator shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.  
[45CSR§2-8.3.c.]

##### **4.5 Reporting Requirements**

None

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<sup>2</sup>Emission Point ID

<sup>3</sup>Emission Unit ID

#### **4.6 Compliance Plan**

Not applicable.

## 5.0. Source-Specific Requirements • Pipeline Heater: HTR3 (004-05)

### 5.1. Limitations and Standards

- 5.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

**[45CSR§2-3.1 and 45CSR13, R13-2468CB (Condition 4.1.10 8.)]**

- 5.1.2. Emissions from the pipeline heater shall not exceed the following:

Pollutant	Emissions	
	lb/hr	tons/yr
CO	2.8	12.26
NO <sub>x</sub>	3.5	15.33
PM	0.53	2.33
VOC	0.7	3.07

Compliance with the PM emissions limit listed above assures compliance with the allowable weight emissions limit established in 45CSR§2-4.1.

**[45CSR13, Permit No. R13-2468CB (Condition 4.1.1)]**

- 5.1.3. The amount of natural gas combusted in the 70 MMBtu/hr heater shall not exceed 70,000 cubic feet per hour, nor  $6.13 \times 10^8$  cubic feet per year.

**[45CSR13, Permit No. R13-2468CB (Condition 4.1.2)]**

- 5.1.4. No person shall cause, suffer, allow, or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:

For type 'b' fuel burning units, the product of 0.09 and the total design heat inputs for such units in million B.T.U's per hour, provided however that no more than six hundred (600) pounds per hour of particulate matter shall be discharged into the open air from all such units.

**[45CSR§2-4.1, 45CSR§2-4.1.b and Permit No. R13-2468CB (Condition 4.1.11-9.)]**

- 5.1.5. No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

For Type 'b' and Type 'c' fuel burning units, the product of 3.1 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

**[45CSR§10-3.1 and 45CSR§10-3.1.e and Permit No. R13-2468CB (Condition 4.1.13 11.)]**

## **5.2. Monitoring Requirements**

None

## **5.3. Testing Requirements**

None

## **5.4. Recordkeeping Requirements**

- 5.4.1. For the purpose of determining compliance with maximum fuel limit set forth in 5.1.3. , the applicant shall maintain a monthly record of the quantity of natural gas burned by the heater and the number of hours of heater operation. Records shall be maintained on site for a period no less than five (5) years. Certified copies of these records shall be made available to the Director or his/her duly authorized representative upon request.

**[45CSR13, Permit No. R13-2468CB (Condition 4.4.2.4.) and ~~45CSR30-5.1.c.~~**

- 5.4.2. The permittee shall maintain records of the date of installation (2003) of the 70 MMbtu/hr heater (HTR3) and the date of permanent removal of the Westinghouse turbine (TRB1). Such records shall be retained by the permittee for at least five (5) years from such dates of installation and removal. Certified records shall be made available to the Director or his/her duly authorized representative upon request.

**[45CSR§30-5.1.c]**

## **5.5. Reporting Requirements**

None

## **5.6. Compliance Plan**

Not applicable.



## **6.0. Source-Specific Requirements • Backup Generator: AUX02 (002-02)**

### **6.1. Limitations and Standards**

- 6.1.1. The backup generator 002-02 shall not operate more than 500 hours per year. Compliance with this limit shall be determined based on 12 month rolling total.  
[45CSR13, Permit No. R13-2468CB (Condition 4.1.4.)]

### **6.2 Monitoring Requirements**

None

### **6.3. Testing Requirements**

None

### **6.4. Recordkeeping Requirements**

- 6.4.1. Monthly records shall be maintained of the hours of operation for this generator.  
[45CSR§30-5.1.c.]

### **6.5. Reporting Requirements**

None

### **6.6. Compliance Plan**

None

## **7.0. Source-Specific Requirements • Natural Gas Storage Tank: TK03 (005-01)**

### **7.1. Limitations and Standards**

- 7.1.1. The VOC emissions from the permitted floating roof storage tank shall not exceed 0.22 pounds per hour nor 1,924 pounds per year.

**[45CSR13, Permit No.: R13-1045]**

- 7.1.2. The 1 MM gallon external floating roof natural gas storage tank (ID: TK03) shall meet the following specifications:

- a. Each external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device is to consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal.

**[45CSR16, 40 C.F.R. § 60.112b(a)(2)(i)]**

- i. The primary seal shall be either a mechanical shoe seal or a liquid mounted seal. Except as provided in §60.113b(b)(4), the seal shall completely cover the annular space between the edge of the floating roof and tank wall.

**[45CSR16, 40 C.F.R. § 60.112b(a)(2)(i)(A)]**

- ii. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in §60.113b(b)(4). **[45CSR16, 40 C.F.R. § 60.112b(a)(2)(i)(B)]**

- b. Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof is to be equipped with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Automatic bleeder vents are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Rim vents are to be set to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents are to be gasketed. Each emergency roof drain is to be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening.

**[45CSR16, 40 C.F.R. § 60.112b(a)(2)(ii)]**

- c. The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible

**[45CSR16, 40 C.F.R. § 60.112b(a)(2)(iii)]**

## **7.2. Monitoring Requirements**

- 7.2.1. To ensure compliance with Section 7.1.2. of this permit and with NSPS Subpart Kb, the permittee shall:
- a. Determine the gap areas and maximum gap widths, between the primary seal and the wall of the storage vessel and between the secondary seal and the wall of the storage vessel according to the following frequency:  
**[45CSR16, 40 C.F.R. § 60.113b(b)(1)]**
    - i. Measurements of gaps between the tank wall and the primary seal (seal gaps) shall be performed during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(1)(i)]**
    - ii. Measurements of gaps between the tank wall and the secondary seal shall be performed within 60 days of the initial fill with VOL and at least once per year thereafter.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(1)(ii)]**
    - iii. If any source ceases to store VOL for a period of one (1) year or more, subsequent introduction of VOL into the vessel shall be considered an initial fill for the purposes of paragraphs (b)(1)(i) and (b)(1)(ii) of § 60.113b.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(1)(iii)]**
  - b. Determine the gap widths and areas in the primary and secondary seals individually by the following procedures:  
**[45CSR16, 40 C.F.R. § 60.113b(b)(2)]**
    - i. Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(2)(ii)]**
    - ii. Measure seal gaps around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel and measure the circumferential distance of each such location.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(2)(ii)]**
    - iii. The total surface area of each gap described in paragraph (b)(2)(ii) of § 60.113b shall be determined by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(2)(iii)]**
  - c. Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in paragraph (b)(4) of § 60.113b.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(3)]**

- d. Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in paragraphs (b)(4)(i) and (b)(4)(ii) of § 60.113b:  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)]**
  - i. The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal shall not exceed 212 cm<sup>2</sup> per meter of tank diameter, and the width of any portion of any gap shall not exceed 3.81 cm.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(i)]**
    - (1) One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(i)(A)]**
    - (2) There are to be no holes, tears, or other openings in the shoe, seal fabric, or seal envelope.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(i)(B)]**
  - ii. The secondary seal is to meet the following requirements:  
**45CSR16, 40 C.F.R. § 60.113b(b)(4)(ii)]**
    - (1) The secondary seal is to be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in paragraph (b)(2)(iii) of § 60.113b.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(ii)(A)]**
    - (2) The accumulated area of gaps between the tank wall and the secondary seal shall not exceed 21.2 cm<sup>2</sup> per meter of tank diameter, and the width of any portion of any gap shall not exceed 1.27 cm.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(ii)(B)]**
    - (3) There are to be no holes, tears, or other openings in the seal or seal fabric.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(ii)(C)]**
  - iii. If a failure that is detected during inspections required in paragraph (b)(1) of § 60.113b(b) cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in § 60.115b(b)(4). Such extension request must include a demonstration of unavailability of alternate storage capacity and a specification of a schedule that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(4)(iii)]**
- e. Notify the Administrator 30 days in advance of any gap measurements required by paragraph (b)(1) of § 60.113b to afford the Administrator the opportunity to have an observer present.  
**[45CSR16, 40 C.F.R. § 60.113b(b)(5)]**
- f. Visually inspect the external floating roof, the primary seal, secondary seal, and fittings each

time the vessel is emptied and degassed.

**[45CSR16, 40 C.F.R. § 60.113b(b)(6)]**

- i. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL.

**[45CSR16, 40 C.F.R. § 60.113b(b)(6)(i)]**

- ii. For all the inspections required by paragraph (b)(6) of § 60.113b, the owner or operator shall notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel to afford the Administrator the opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph (b)(6) of § 60.113b above is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling.

**[45CSR16, 40 C.F.R. § 60.113b(b)(6)(ii)]**

### **7.3. Testing Requirements**

None

### **7.4. Recordkeeping Requirements**

- 7.4.1. The permittee shall maintain records of the tank throughput of natural gas, monthly at a minimum, but may record it more often at the discretion of the owner or operator. The throughput will be used, in addition to the TANKS program, to calculate the emissions of VOC hourly and annually. A twelve month running total shall be maintained to verify compliance with the annual emission limit. Each month a new twelve month total shall be calculated using the previous twelve months data. Records and calculations shall be maintained on site for a period of no less than five (5) years and shall be made available upon request to the Director or his/her duly authorized representative.

**[45CSR§30-5.1.c.]**

- 7.4.2. Keep a record of each gap measurement performed as required by § 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain.

**[40 C.F.R. § 60.115b(b)(3)]**

- a. The date of measurement.

**[40 C.F.R. § 60.115b(b)(3)(i)];**

- b. The raw data obtained in the measurement.

**[40 C.F.R. § 60.115b(b)(3)(ii)];**

- c. The calculations described in § 60.113b(b)(2) and (b)(3).

**[40 C.F.R. § 60.115b(b)(3)(iii)]**

- 7.4.3. The owner or operator of each storage vessel as specified in § 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the source.

**[40 C.F.R. § 60.116b(b)]**

- 7.4.4. The owner or operator shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure of that volatile organic liquid during the respected storage period. The maximum true vapor pressure shall be determined in accordance with § 60.116b(e). These records shall be kept on site for at least 5 years.

**[40 C.F.R. § 60.116b(c)]**

## **\_\_\_7.5. Reporting Requirements**

- 7.5.1. Furnish the Director with a report that describes the control equipment and certifies that the control equipment meets the specifications of § 60.112b(a)(2) and § 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by § 60.7(a)(3).

**[40 C.F.R. § 60.115b(b)(1)]**

- 7.5.2. Within 60 days of performing the seal gap measurements required by § 60.113b(b)(1), furnish the Director with a report that contains:

**[40 C.F.R. § 60.115b(b)(2)]**

- a. The date of measurement.

**[40 C.F.R. § 60.115b(b)(2)(i)];**

- b. The raw data obtained in the measurement.

**[40 C.F.R. § 60.115b(b)(2)(ii)];**

- c. The calculations described in § 60.113b(b)(2) and (b)(3).

**[40 C.F.R. § 60.115b(b)(2)(ii)]**

- 7.5.3. After each seal gap measurement that detects gaps exceeding the limitations specified by § 60.113b(b)(4), submit a report to the Director within 30 days of the inspection. The report will identify the vessel and contain the information specified in paragraph (b)(2) of § 60.115b and the date the vessel was emptied or the repairs made and date of repair.

**[40 C.F.R. § 60.115b(b)(4)]**

## **7.6. Compliance Plan**

\_\_\_\_\_ Not applicable.

## **8.0. Source Specific Requirements • 40 C.F.R. 60, Subpart VV (as applicable)**

Although this facility is not subject to 40 C.F.R. 60 Subpart VV, many sections of Subpart VV are incorporated by reference in 40 CFR 60 Subpart KKK. The pertinent sections of 40 C.F.R. 60 Subpart VV applicable to this facility include the following requirements. The provisions of Subpart VV apply to affected facilities in the synthetic organic chemicals manufacturing industry.

### **Standards and Monitoring Requirements**

Each owner or operator subject to the provisions of this subpart shall demonstrate compliance with the requirements of §§ 60.482-1 to 60.482-10 for all equipment within 180 days of initial startup.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-1(a); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

#### **8.1. PUMPS in light liquid service.**

- a. Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in § 60.485(b), except as provided in § 60.482-1(c) and paragraphs (d), (e), and (f) of § 60.482-2.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-2(a)(1); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

- b. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. §60.482-2(a)(2); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

- i. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-2(b)(1); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

- ii. If there are indications of liquids dripping from the pump seal, a leak is detected.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-2(b)(2); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

- c. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9.

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-2(c)(1); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

#### **8.2. PRESSURE RELIEF DEVICES in gas/vapor service.**

##### **8.2.1. Limitations and Standards**

- a. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c).

~~\_\_\_\_\_~~ [45CSR16, 40 C.F.R. § 60.482-4(a); and 45CSR13, R13-2468~~CB~~ (Condition 4.1.15 ~~13~~)]

- b. After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in § 60.482-9.

**[45CSR16, 40 C.F.R. § 60.482-4(b)(1); and 45CSR13, R13-2468CB (Condition 4.1.15 13)]**

- c. Each pressure relief device in gas/vapor service may be monitored quarterly and within 5 days after each pressure release to detect leaks by the methods specified in § 60.485(b) except as provided in § 60.632(c), §60.633(b)(4) and § 60.482-4 (a) through (c) of subpart VV.

**[45CSR16, 40 C.F.R. § 60.633(b)(1); and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**

- i. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

**[45CSR16, 40 C.F.R. § 60.633(b)(2); and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**

- ii. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in § 60.482-9.

**[45CSR16, 40 C.F.R. § 60.633(b)(3)(i); and 45CSR13, R13-2468CB (Condition 4.1.14 12)]**

- d. No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in §60.485(c).

**[45CSR16, 40 C.F.R. § 60.482-4(b)(2); and 45CSR13, 13-2468CB (Condition 4.1.15 13)]**

#### **8.2.2. Recordkeeping**

The permittee shall comply with the recordkeeping and reporting requirements of §§ 60.486 and 60.487; except as provided in the exceptions of 60.633, the recordkeeping requirements of § 60.635 and the reporting requirements of § 60.636.

The permittee shall comply with the recordkeeping requirements of § 60.635 in addition to the requirements of § 60.486. The following recordkeeping requirements shall apply to pressure relief devices subject to the requirements of § 60.633(b)(1).

**[45CSR16, 40 C.F.R § 60.635(b)]**

- a. When each leak is detected as specified in § 60.633(b)(2), a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

**[45CSR16, 40 C.F.R. § 60.635(b)(1)]**

- b. When each leak is detected as specified in § 60.633(b)(2), the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location: the instrument and operator identification numbers and the equipment identification number, the date the leak was detected and the dates of each attempt to repair the leak, repair methods applied in each attempt to repair the leak, "Above 10,000 ppm" if the maximum instrument reading measured is 10,000 ppm or greater, "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak, the signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown, the expected date of successful repair of the leak if a leak is not repaired within 15 days, dates of process unit shutdowns that occur while the equipment is unrepaired, the date of successful repair of the leak, and a list of identification numbers for equipment that are designated for no detectable emissions which shall be signed by the owner/operator.

**[45CSR16, 40 C.F.R. § 60.635(b)(2)]**



- c. The permittee shall comply with the following requirement in addition to the requirement of §60.486(j): Information and data used to demonstrate that a reciprocating compressor is in wet gas service to apply for the exemption in § 60.633(f) shall be recorded in a log that is kept in a readily accessible location.

[45CSR16, 40 C.F.R. § 60.635(c)]

### 8.3. SAMPLING CONNECTION SYSTEMS.

- a. Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system, except as provided in § 60.482-1(c).

[45CSR16, 40 C.F.R. § 60.482-5(a); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- b. Each closed-purge, closed-loop, or closed-vent system as required in paragraph (a) of § 60.482-5 shall comply with the requirements specified in paragraphs (b)(1) through (b)(3) of § 60.482-5:

[45CSR16, 40 C.F.R. § 60.482-5(b); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- i. Return the purged process fluid directly to the process line; or

[45CSR16, 40 C.F.R. § 60.482-5(b)(1); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- ii. Collect and recycle the purged process fluid to a process; or

[45CSR16, 40 C.F.R. § 60.482-5(b)(2); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- iii. Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of §60.482-10.

[45CSR16, 40 C.F.R. § 60.482-5(b)(3); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

### 8.4. OPEN-ENDED VALVES OR LINES.

- a. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1(c).

[45CSR16, 40 C.F.R. § 60.482-6(a)(1); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- b. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

[45CSR16, 40 C.F.R. § 60.482-6(a)(2); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- c. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

[45CSR16, 40 C.F.R. § 60.482-6(b); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

- d. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) at all other times.

[45CSR16, 40 C.F.R. § 60.482-6 (c); and 45CSR13, R13-2468C~~B~~ (Condition 4.1.15 ~~13~~)]

### 8.5. VALVES in gas/vapor service and in light liquid service.

- a. Each valve shall be monitored monthly to detect leaks by the methods specified in § 60.485(b) and shall comply with paragraphs (b) through (e), except as provided in

paragraphs (f), (g), and (h), §60.483-1,2, and § 60.482-1(c).

[45CSR16, 40 C.F.R. § 60.482-7(a); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- i. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

[45CSR16, 40 C.F.R. § 60.482-7(b); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- b. Any valve for which a leak not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.

[45CSR16, 40 C.F.R. § 60.482-7(c)(1); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- c. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months

[45CSR16, 40 C.F.R. § 60.482-7(c)(2); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- d. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in §60.482-9.

[45CSR16, 40 C.F.R. § 60.482-7(d)(1); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

**8.6. PUMPS AND VALVES in heavy liquid service, PRESSURE RELIEF DEVICES in light liquid or heavy liquid service, and CONNECTORS.**

- a. Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days by the method specified in § 60.485(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

[45CSR16, 40 C.F.R. § 60.482-8(a); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- i. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

[45CSR16, 40 C.F.R. § 60.482-8(b); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- b. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in § 60.482-9.

[45CSR16, 40 C.F.R. § 60.482-8(c)(1); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- c. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

[45CSR16, 40 C.F.R. § 60.482-8(c)(2); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

**8.7. DELAY OF REPAIR.**

- a. Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

[45CSR16, 40 C.F.R. § 60.482-9(a); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- b. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.

[45CSR16, 40 C.F.R. § 60.482-9(b); and 45CSR13, R13-2468CB (Condition 4.1.15-13)].

- c. Delay of repair for valves will be allowed if:

[45CSR16, 40 C.F.R. § 60.482-9(c); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]

- i. The owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and  
**[45CSR16, 40 C.F.R. § 60.482-9(c)(1); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
- ii. When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with §60.482-10.  
**[45CSR16, 40 C.F.R. § 60.482-9(c)(2); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
- d. Delay of pumps will be allowed if:  
**[45CSR16, 40 C.F.R. § 60.482-9(d); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
  - i. Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and  
**[45CSR16, 40 C.F.R. § 60.482-9(d)(1); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
  - ii. Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.  
**[45CSR16, 40 C.F.R. § 60.482-9(d)(2); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
- e. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.  
**[45CSR16, 40 C.F.R. § 60.482-9(e); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**

**8.8. CLOSED VENT SYSTEMS AND CONTROL DEVICES.**

- a. Owners or operators of closed vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of §60.482-10.  
**[45CSR16, 40 C.F.R. § 60.482-10(a); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
- b. Owners or operators of control devices used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.  
**[45CSR16, 40 C.F.R. § 60.482-10(e); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**

**8.9. ALTERNATIVE STANDARDS FOR VALVES -- skip period leak detection and repair.**

- a. An owner or operator may elect to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.  
**[45CSR16, 40 C.F.R. § 60.483-1(a); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**
- b. The following requirements shall be met if an owner or operator wishes to comply with an allowable percentage of valves leaking:  
**[45CSR16, 40 C.F.R. § 60.483-1(b); and 45CSR13, R13-2468CB (Condition 4.1.15-13)]**

- i. An owner or operator must notify the Director that the owner or operator has elected to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in § 60.487(b).  
**[45CSR16, 40 C.F.R. § 60.483-1(b)(1); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - ii. A performance test as specified in paragraph (c) of this section shall be conducted initially upon designation, annually, and at other times as requested by the Director.  
**[45CSR16, 40 C.F.R. § 60.483-1(b)(2); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - iii. If a valve leak is detected, it shall be repaired in accordance with § 60.482-7(d) and (e).  
**[45CSR16, 40 C.F.R. § 60.483-1(b)(3); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - c. An owner or operator may elect to comply with one of the alternative work practices specified in paragraphs (b)(2) and (3) of § 60.483-2.  
**[45CSR16, 40 C.F.R. § 60.483-2(a)(1); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - d. An owner or operator must notify the Administrator before implementing one of the alternative work practices, as specified in §60.487(b).  
**[45CSR16, 40 C.F.R. § 60.483-2(a)(2); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - e. An owner or operator shall comply initially with the requirements for valves in gas/vapor service and valves in light liquid service, as described in §60.482-7.  
**[45CSR16, 40 C.F.R. § 60.483-2(b)(1); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - f. After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0 an owner or operator may begin to skip 1 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.  
**[45CSR16, C.F.R. § 60.483-2(b)(2); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
  - g. After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip 3 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.  
**[45CSR16, C.F.R. § 60.483-2(b)(3); and 45CSR13, R13-2468CB (Condition 4.1.15 ~~13~~)]**
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- \_\_\_\_\_

## 9.0. Source-Specific Requirements • Diesel Fired Fire Pumps: EN01 (001-01), and EN02 (001-02) and EN03 (001-03)

### 9.1. Limitations and Standards

- 9.1.1. Emissions from the 300 hp diesel fired fire pumps shall not exceed the following:

ID No.	Description	NOx		CO		VOC		PM		SO <sub>2</sub>	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
001-01 39447	Fire Pump	3.44	15.06	0.67	2.93	0.21	0.90	0.15	0.67	0.57	2.49
001-02 39448	Fire Pump	3.44	15.06	0.67	2.93	0.21	0.90	0.15	0.67	0.57	2.49

[45CSR13, Permit No. R13-2468CB (Condition 4.1.5.)]

- 9.1.2. The amount of diesel fuel combusted in each of the 300 hp diesel pumps shall not exceed 14 gallons per hour and 122,640 gallons per year.

[45CSR13, Permit No. R13-2468CB (Condition 4.1.6.)]

- 9.1.3. Emissions from the 211 hp diesel fired fire pump identified in Permit Application R13-2468C as 001-03 shall not exceed the following:

ID No.	Description	NOx		CO		VOC		PM		SO <sub>2</sub>	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
001-03	Fire Pump	1.21	5.30	0.28	1.22	0.05	0.20	0.04	0.16	0.44	1.91

[45CSR13, Permit No. R13-2468C (Condition 4.1.7.)]

- 9.1.4. The amount of diesel fuel combusted in the 211 hp diesel fired fire pump (ID No. 001-03) shall not exceed 10.7 gallons per hour and 93,732 gallons per year.

[45CSR13, Permit No. R13-2468C (Condition 4.1.8.)]

- 9.1.5. The facility shall combust only #2 diesel fuel in the diesel fired fire pumps, Equipment (ID No. 001-01, and 001-02 and 001-03)

[45CSR13, Permit No. R13-2468CB (Condition 4.1.9 4.1.7.)]

- 9.1.6. Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to the is Subpart IIII of Part 60 and shown below in table 9.1.4., for all pollutants.

Table 4 to Subpart IIII of Part 60 - Emission Standards for Stationary Fire Pump Engines

Table 9.1.4.: For Fire Pump Engine with 300 ≤HP<600 of model year 2008 and earlier

Maximum engine power	Model year	NMHC + NOx	CO	PM
		g/bhp-hr	g/bhp-hr	g/bhp-hr
300 ≤HP<600 (001-01 and 001-02) Subpart III Limit	2008 and earlier	7.8	2.6	0.40
175 ≤HP<300 (001-03) Guaranteed Emissions of Proposed Fire Pumps (001-01 and 001-02)	2009+	3.0 5.5+	- 1.0+	0.15 0.23

Compliance with NO<sub>x</sub>, CO and PM emission limits in Requirements 9.1.1. and 9.1.3 will demonstrate compliance with these Standards.

**[45CSR16, 40 C.F.R. § 60.4205(c) and 45CSR13, Permit No. R13-2468B (Condition 4.1.14.)]**

- 9.1.~~75~~. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

**[45CSR16, 40 C.F.R. § 60.4206 and 45CSR13, Permit No. R13-2468CB (Condition 4.1.1615)]**

- 9.1.~~86~~. Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

**[45CSR16, 40 C.F.R. § 60.4207(a) and 45CSR13, Permit No. R13-2468CB (Condition 4.1.1716)]**

- 9.1.~~97~~. Beginning October 1, 2010, owners and operators of stationary CI ICE subject to the subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

**[45CSR16, 40 C.F.R. § 60.4207(b) and 45CSR13, Permit No. R13-2468CB (Condition 4.1.1817)]**

- 9.1.~~108~~. Owners or operators of an emergency stationary CI internal combustion engine, the facility must install a non-resettable hour meter prior to startup of the engine.

**[45CSR16, 40 C.F.R. § 60.4209(a) and 45CSR13, Permit No. R13-2468CB (Condition 4.1.1918)]**

- 9.1.~~119~~. Owners or operators of a pre-2007 model year stationary CI internal combustion engine that and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or ~~if the owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c) (Requirement 9.1.6), the owner or operator must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of 40 C.F.R. § 60.4211(b):~~

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

**[45CSR16, 40 C.F.R. § 60.4211(b) and 45CSR13, Permit No. R13-2468 CB (Condition 4.1.2019)] (001-01 and 001-02 only)**

- 9.1.~~1210~~. Owners or operators of a 2007 model year and later stationary CI internal combustion engine that and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or ~~if an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies, the fire pump engine power rating in table 3 to this subpart and that must comply with the emission standards specified in §60.4205(c) (Requirement 9.1.6), the facility must comply by purchasing an~~

engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

**[45CSR16, 40 C.F.R. § 60.4211(c) and 45CSR13, Permit No. R13-2468CB (Condition 4.1.21 20)] (*001-03 only*)**

9.1.13++Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is not time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in 40 C.F.R. § 60.4211(e), is prohibited.

**[45CSR16, 40 C.F.R. § 60.4211(e) and 45CSR13, Permit No. R13-2468CB (Condition 4.1.22 21)]**

## **9.2. Monitoring Requirements**

None

## **9.3. Testing Requirements**

None

## **9.4. Recordkeeping Requirements**

9.4.3. For the purpose of determining compliance with the maximum fuel limits, emission limits, and type of fuel used set forth in Sections 9.1.1, ~~9.1.2~~, - 9.1.5, the applicant shall maintain a monthly record of the quantity of #2 diesel fuel burned and the number of hours of operation for each fire pump. In addition, the facility shall maintain a fuel supplier certification record for the #2 diesel fuel to be combusted. Records shall be maintained on site for a period no less than five (5) years. Certified copies of these records shall be made available to the Director or his/her duly authorized representative upon request.

**[45CSR13, Permit No. R13-2468CB (Condition 4.4.3 5)]**

9.4.4. For the purpose of demonstrating compliance with 40 C.F.R. 60.4211(b), listed in Section 9.1.11 9, and with 40 C.F.R. 60.4211(c) (Section 9.1.12), the applicant must maintain record of engine manufacturer data indicating compliance with 40 C.F.R. 60 Subpart IIII emissions standards 60.4205(c) (Requirement 9.1.6). Records shall be maintained on site for a period no less than five (5) years. Certified copies of these records shall be made available to the Director or his/her duly authorized representative upon request.

**[45CSR13, Permit No. R13-2468CB (Condition 4.4.4 6) and 45CSR§30-5.1(c)]**

## **9.5. Reporting Requirements**

None.

## **9.6. Compliance Plan**

None.